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Progress
Report

September 1984

TELEOPERATOR HUMAN FACTORS STUDY

Prepared for George C. Marshall
Space Flight Center, Alabama 35812

Contract NAS8-35184

Report Period

August 8, 1984 through September 8, 1984


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(NASA-CR-173890) TELEOPERATOR HUMAN FACTORS
STUDY Progress Report, 8 Aug. - 8 Sep. 1984
(Martin Marietta Corp.) 3 p HC A02/MF A01
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INTRODUCTION

This document summarizes the progress made on the Teleoperator Human Factors Study program during the period of August 8, 1984 to September 8, 1984. Technical and programmatic problems that have been encountered are discussed along with activity planned for the following month. The main portion of the report has been separated into four sections: Work Performed, Future Work, Problems Encountered, and Cost Information.

WORK PERFORMED

This section outlines progress made under each of the major study task elements. During the prior month, the primary emphasis was focused on evaluating results of the NASA Intercenter Space Teleoperation Human Factors Symposium held at Leesburg, Virginia, on July 24-26, 1984.

An overall summary of the work completed and in progress on each of the study tasks is discussed. Informal reports have been completed on Task 1 through Task 5:

Task 1 - Define Reference Set of Teleoperator Tasks (WBS-1100)

Task 2 - Define Technology Development/Design Options and Issues (WBS-1200)

Task 3 - Survey and Assess Previous Studies (WBS-1300)

Task 4 - Define Missing Elements

Task 5 - Develop HFRP Requirements

Task 6 - Facility Requirements and Alternatives

Work effort on Task 6 has continued on a limited basis in accordance with the scope of work received in the change order from NASA.

FUTURE WORK

Work planned for the month of September is a continuation of the August activities:

- 1) Continue Task 6, "Facility Requirements and Alternatives."
- 2) Respond to requested effort described in contract change order.
- 3) Define and document in a non-restrictive format as feasible the facility requirements/alternatives for accomplishing the individual elements of the teleoperation research plan.

- 4) Become familiar with MSFC test facilities and equipment that are compatible with teleoperation and human factors.
- 5) Identify a representative set of experiments resulting from Task 5 above, along with priority rationale.

PROBLEMS ENCOUNTERED

None

COST INFORMATION
(As of 8/26/84)

- | | |
|------------------------------------|-----------|
| 1) Total cumulative cost incurred: | \$173,690 |
| 2) Estimate of cost to complete: | \$156,310 |